

Secure DTN Communications, Phase I

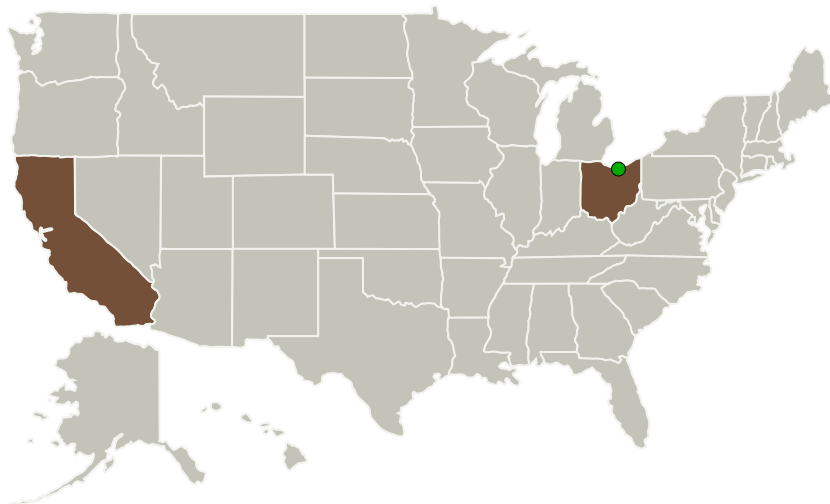
Completed Technology Project (2013 - 2013)



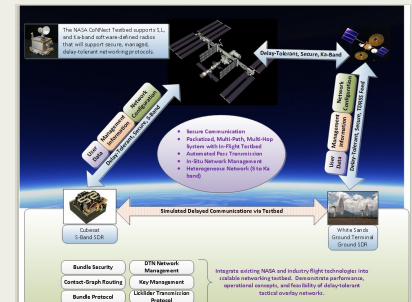
Project Introduction

For the proposed CoNNeCT experiment, Innoflight and John Hopkins University Applied Physics Laboratory (JHU/APL) have formed a significant complimentary union with respect to each one's expertise in space networking. Innoflight is bringing forward design and development expertise in cryptographically secure Internet Protocol (IP) for space links per NSA specifications while JHU/APL brings formidable Disruption Tolerant Networking (DTN) protocol and application to run above the secure transport. The two combined provide a high-value space communications solution that can be tested and refined using CoNNeCT. In addition, each one separately provides its own independent solution for a large variety of commercial and government applications.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
Innoflight, Inc.	Lead Organization	Industry Veteran-Owned Small Business (VOSB)	San Diego, California
● Glenn Research Center(GRC)	Supporting Organization	NASA Center	Cleveland, Ohio



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Technology Maturity (TRL)

Start: **3**
Current: **5**
Estimated End: **5**



Technology Areas

Primary:

- TX05 Communications, Navigation, and Orbital Debris Tracking and Characterization Systems
 - └ TX05.3 Internetworking
 - └ TX05.3.3 Information Assurance

Target Destinations

The Moon, Mars, Outside the Solar System, The Sun, Earth, Others Inside the Solar System